

**GB2389013**

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Drawing



Closed-loop power control during handover in a CDMA mobile communication system

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Abstract

A signal to interference (SIR) ratio is used as a reference in closed-loop power control and is updated independently of the Base Station Controller (BSC) in Base Transceiver Stations (BTSSs). When a loss of synchronisation of a user signal from a mobile station is detected at a BTS, a demodulator at the BTS adds a step value Δ SIR to the uplink signal target value from the BSC to give a provisional value for an uplink signal target SIR (step 101) and when this provisional SIR target is smaller than a predetermined maximum SIR target (step 102), the target SIR value is updated in the BTS to the provisional SIR target (step 103). The method can additionally include comparing the provisional SIR target with the target SIR value set by the BSC plus a threshold value Δ (step 104) and informing the BSC if the provisional SIR value is greater. The BSC then updates the target SIR value set by the BSC and reports the changed BSC-set target SIR to the BTS (step 105).

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